

groundwater<sup>SM</sup>  
Las Vegas-Dec. 6-8, 2016 week

2 days of exhibits  
3 days of workshops  
2 days of bonus offerings!



## Iowa DNR Well Contractor CEU Contact Hour Information

- Please note the web links in this document are live so you can view additional information -

[Web Links to Event](#) - [Home](#) [Attend](#) [Exhibitors & Sponsors](#) [Venue & Hotel](#) [Register](#)

Monday, December 5, 2016

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**No Iowa Contact Hours Available Today**

Tuesday, December 6, 2016

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8:00 a.m.-9:00 a.m. **These sessions qualify for 1 Iowa Contact Hour**

Run Your Business Efficiently! The Industry's Best Business Practices  
Rick Oberle

Scientists and Engineers Section Board Meeting

The Water Systems Cost Savings Act and Other Legal and Legislative Issues Facing Our Industry  
Margaret Martens and Jesse J. Richardson Jr., J.D.

Water Treatment Opportunities: When to Hold Them and When to Fold Them  
Greg Gruett, CEO

Wire Rope Inspection and Safety for Drilling Operations  
David Bowers, CVCLD

9:15 a.m.-10:15 a.m.

Large Capacity Well Efficiency: Food Production, Energy, and Supply Challenges: Well Design  
Marvin F. Glotfelty, RG

Solar Water Pumping: This Growing Renewable Energy Opportunity Can Become Your New Viable Revenue Source  
Jeff Frank

Stay Connected: Industry Associations and Dynamics  
Diann Scott

Water Chemistry and Corrosion: Effects and Treatment  
Perialwar Regunathan and Kimberly Redden

10:00 a.m.-3:00 p.m. **This session qualifies for 5 Iowa Contact Hours**

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Mitigating Naturally-Occurring and Human Induced Contaminants in Groundwater  
Jeff Angermann, Ph.D.

10:30 a.m.-11:30 a.m. **These sessions qualify for 1 Iowa Contact Hour**

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Hydrofracking: Groundwater, Not Oil and Gas  
Jeffrey Williams, MGWC, CVCLD

Large Capacity Well Efficiency: Food Production, Energy, and Supply Challenges: Well Development  
Marvin F. Glotfelty, RG

Regulatory Officials Advisory Panel Briefing

Sizing the Right Pipe for a Job  
Bill Corey

Treat Muddy Drilling Water by Using a Sediment Filter Bag as a BMP  
Todd Giddings, Ph.D., PG

12:30 p.m.-1:30 p.m.

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Filtration Control in Drilling Fluids: What Is It and Why Should I Care?  
Jeff Blinn

Innovative and Time-Saving Techniques for Conducting a Low-Flow Groundwater Sampling Event  
Bill Mann

Large Capacity Well Efficiency: Food Production, Energy, and Supply Challenges: Water Use Calculation  
John Pitz, CPI

What Contractors Need to Know to Successfully Treat Water  
Greg Gruett, CEO

1:00 p.m.-2:00 p.m.

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Best Suggested Practices: Reducing Problematic Concentrations of Radium in Residential Water Well Systems  
Kathryn J. Butcher, CMP

1:45 p.m.-2:45 p.m.

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Achieving Energy Savings and More with VFDs  
Larry R. Stanley

Large Capacity Well Efficiency: Food Production, Energy, and Supply Challenges: Proper Pump Selection  
David Kill

Solving Total Coliform Failures with Well Rehabilitation and Maintenance  
Neil Mansuy

3:00 p.m.-4:00 p.m.

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Large Capacity Well Efficiency: Food Production, Energy, and Supply Challenges: System Operation and Maintenance  
Gary M. Gin, RG

Safe Practice in the Groundwater Industry: Materials Handling  
Dustin Kinder and John Baxter

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3:30 p.m.-4:45 p.m. **This session qualifies for 1.25 Iowa Contact Hours**

Operational Stages of the Well: Evaluating the Forms of Water Well Deterioration

Thom Hanna, PG, Michael Schnieders, PG, PH-GW and John Schnieders, Ph.D.

3:30 p.m.-5:15 p.m. **This session qualifies for 1.75 Iowa Contact Hours**

Soils, Irrigation, and Groundwater Management

Steve Evett

4:15 p.m.-5:15 p.m. **These sessions qualify for 1 Iowa Contact Hour**

An Assessment Tool to Evaluate Private Well Vulnerabilities and Risk

Steven D. Wilson

Electronic Logging Devices: Complying with the New Federal Law

Tony Verillo

Water Rating Systems: How They Can Further Responsible Groundwater Practices

Doug Pushard

Well Rehabilitation and Maintenance: Diagnosing Problems and Selecting Proper Chemical Solutions

Kevin McGinnis

**Wednesday, December 7, 2016**

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7:30 a.m.-8:45 a.m. **These sessions qualify for 1.25 Iowa Contact Hours**

Increase Your Revenue Potential with Packaged Systems and Pressure Boosting

Jim Hartmann

Legally Structuring Your Business Activities To Comply With New Electronic Logging Device Laws

Tony Verillo

Optimize Your Revenue per Site Visit: Why You Should Invest in VFDs

Matt Clark

9:30 a.m.-10:45 a.m.

Keynote Address. Joint Opening Session with Irrigation Association

11:00 a.m.-5:00 p.m. **The exhibit hall qualifies for 1 Iowa Contact Hour each day its open.**

Exhibit Hall Open

11:30 a.m.-12:00 p.m. **This session qualifies for 0.5 Iowa Contact Hour**

Wiring Three-Wire Pumps Made Easy (AA)

Stephen Anderson

1:00 p.m.-2:00 p.m. **This session qualifies for 1 Iowa Contact Hour**

Best Suggested Practices: Well Development

Kathryn J. Butcher, CMP

1:00 p.m.-5:00 p.m. **These sessions qualify for 4 Iowa Contact Hours**

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Hydraulic Line Damage Identification and Prevention (AA)

Denis Crayon

Lost Circulation Materials and How They Work! (AA)

Jeffrey Quinn, Jeffrey Quinn and Mark Whittle

1:30 p.m.-3:00 p.m. **This session qualifies for 1.5 Iowa Contact Hours**

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NGWREF Darcy Lecture: Seeing Things Differently: Rethinking the Relationship Between Data, Models, and Decision-Making

Ty Ferre

2:00 p.m.-2:30 p.m. **These sessions qualify for 0.5 Iowa Contact Hour**

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Basic VFD Startup (AA)

Larry R. Stanley

Wire Clips (AA)

Fred McAninch

3:00 p.m.-3:30 p.m.

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How To (Geophysically) Log A Water Well (AA)

James J. LoCoco and James J. LoCoco

Installing and Making the Most of Customer WellIntel Systems (AA)

Marian Singer, CEO, Nick Hayes, CTO, Joseph Fillingham, Ph.D. and Lee Knudtson

3:30 p.m.-5:00 p.m. **This session qualifies for 1.5 Iowa Contact Hours**

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McElhiney Lecture: Groundwater Contaminants and Treatment Technologies

Peter S. Cartwright, PE

4:00 p.m.-5:00 p.m. **This session qualifies for 1 Iowa Contact Hour**

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Heavy Equipment Safety Check and Inspection (AA)

Rob Caho

4:00 p.m.-4:30 p.m. **These sessions qualify for 0.5 Iowa Contact Hour**

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Setting Up and Troubleshooting a Typical Residential VFD (AA)

Tom Stephan and Tom Stephan

Utilizing Groundwater Data for Science and Management (AA)

Nick Hayes, CTO, Marian Singer, CEO and Joseph Fillingham, Ph.D.

**Thursday, December 8, 2016**

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7:15 a.m.-8:15 a.m. **This session qualifies for 1 Iowa Contact Hour**

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Best Suggested Practices: Well Disinfection

Kathryn J. Butcher, CMP

7:15 a.m.-8:00 a.m. **This session qualifies for 0.75 Iowa Contact Hour**

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Facilitated Discussion: What Types of Articles/Content in NGWA's Journals Would Help You Be a Better Groundwater Professional?

Thad Plumley

9:00 a.m.-3:45 p.m. **This session qualifies for 6 Iowa Contact Hours**

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Advances in Groundwater Science and Practice

William Alley, Ph.D. and Steve Wilson

9:30 a.m.-10:30 a.m. **This session qualifies for 1 Iowa Contact Hour**

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Aquifer Characterization Tests and Pressure Transducer Data Collection

Bill Mann

9:30 a.m.-11:00 a.m. **This session qualifies for 1.5 Iowa Contact Hour**

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McElhiney Revisited: Annular Space Research and Chemical Rehabilitation of Wells

Tom Christopherson and John Schnieders, Ph.D.

9:30 a.m.-10:30 a.m. **This session qualifies for 1 Iowa Contact Hour**

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Ten Things You Wish the Public Knew

Mark Reeder

10:45 a.m.-11:45 a.m. **This session qualifies for 1 Iowa Contact Hour**

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The Endless Challenge of Underground Utilities: Lessons Learned

Denis Crayon, Dustin Kinder, John Baxter and Fred McAninch

11:00 a.m.-5:00 p.m. **The exhibit hall qualifies for 1 Iowa Contact Hour each day its open.**

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Exhibit Hall Open

11:15 a.m.-12:15 p.m. **This session qualifies for 1 Iowa Contact Hour**

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Heavy Equipment Safety Check and Inspection (AA)

Rob Caho

11:30 a.m.-12:00 p.m. **These sessions qualify for 0.5 Iowa Contact Hour**

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Seismoelectric Groundwater Exploration

Ervin Kraemer and Ervin Kraemer

Setting Up and Troubleshooting a Typical Residential VFD (AA)

Tom Stephan and Tom Stephan

12:30 p.m.-1:30 p.m. **These sessions qualify for 1 Iowa Contact Hour**

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Safe Practice in the Groundwater Industry: Slips, Trips, and Falls

Roger E. Renner, MGWC and Denis Crayon

Water Well Corrosion: Types, Effects, and Resolutions  
Roger Miller and Eric Duderstadt

1:00 p.m.-1:30 p.m. **These sessions qualify for 0.5 Iowa Contact Hour**

Borehole Geophysics - Spontaneous Potential (SP) Logs (AA)  
Bruce Manchon, PG and John Sciacca

Geophysical Groundwater Exploration (AA)

1:00 p.m.-2:15 p.m. **This session qualifies for 1.25 Iowa Contact Hours**

NGWA Advisory Panel Connect Open Roundtable

2:00 p.m.-2:30 p.m. **This session qualifies for 0.5 Iowa Contact Hour**

Borehole Geophysics - Gamma Ray (AA)  
Bruce Manchon, PG and John Sciacca

2:30 p.m.-3:30 p.m. **These sessions qualify for 1 Iowa Contact Hour**

Preparing for the Field: What to Take (AA)  
W. Richard Laton, Ph.D., P.G., CPG and Steven Maslansky

Safe Practice in the Groundwater Industry: Electrical Safety and Electrocutation  
Roger E. Renner, MGWC and Denis Crayon

3:00 p.m.-3:30 p.m. **These sessions qualify for 0.5 Iowa Contact Hour**

Borehole Geophysics - Resistivity (AA)  
Bruce Manchon, PG and John Sciacca

4:00 p.m.-4:30 p.m.

Borehole Geophysics - Building Cross Sections (AA)  
Bruce Manchon, PG and John Sciacca

Enhancing Motor Protection  
Bob Pelikan

**Friday, December 9, 2016**

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8:30 a.m.-1:00 p.m. **This session qualifies for 4.5 Iowa Contact Hour**

IA and NGWA Drought Summit

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